

**TENNESSEE AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531**



OPERATING PERMIT (TITLE V) Issued Pursuant to Tennessee Air Quality Act

This permit fulfills the requirements of Title V of the Federal Clean Air Act (42 U.S.C. 7661a-7661e) and the federal regulations promulgated thereunder at 40 CFR Part 70. (FR Vol. 57, No. 140, Tuesday, July 21, 1992 p.32295-32312). This permit is issued in accordance with the provisions of paragraph 1200-3-9-.02(11) of the Tennessee Air Pollution Control Regulations. The permittee has been granted permission to operate an air contaminant source in accordance with emissions limitations and monitoring requirements set forth herein.

Date Issued: August 28, 2006

Permit Number:
558106

Date Expires: August 27, 2011

Issued To:
Bumble Bee Boats, LLC

Installation Address:
**210 Industrial Blvd.
Tullahoma**

Installation Description:

Fiberglass Boat Manufacturing Operation

The entire facility is one source comprised of following Operations:

Gel coat Application-Two Spray Booths No.1 & No. 2 with Exhaust Filter Control

Laminating & Adhesive Application – One Spray and Hand Lay-up Application Booth with Exhaust Filter Control

Emission Source Reference No.: **16-0112**

Renewal Application Due Date: **Between November 30, 2010 and February 28, 2011**

Primary SIC: **37**

Responsible Official:

Name: Rick Wejrock
Title: Chief Managing Officer

Facility Contact Person:

Name: Rick Wejrock
Title: Chief Managing Officer
Phone: (931)-455-9728

Information Relied Upon:

Application dated March 23, 2005.

Document dated May 24, 2006

(continued on the next page)

TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

POST OR FILE AT INSTALLATION ADDRESS

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SECTION A

GENERAL PERMIT CONDITIONS

A permit issued under the provisions of paragraph 1200-3-9-.02(11) is a permit issued pursuant to the requirements of Title V of the Federal Act and its implementing Federal regulations promulgated at 40 CFR, Part 70.

- A1. **Definitions.** Terms not otherwise defined in the permit shall have the meaning assigned to such terms in the referenced regulation.

TAPCR 1200-3

- A2. **Compliance requirement.** All terms and conditions in a permit issued pursuant to paragraph 1200-3-9-.02(11) including any provisions designed to limit a source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act.

The permittee shall comply with all conditions of its permit. Except for requirements specifically designated herein as not being federally enforceable (State Only), non-compliance with the permit requirements is a violation of the Federal Act and the Tennessee Air Quality Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Non-compliance with permit conditions specifically designated herein as not being federally enforceable (State Only) is a violation of the Tennessee Air Quality Act and may be grounds for these actions.

TAPCR 1200-3-9-.02(11)(e)2(i) and 1200-3-9-.02(11)(e)1(vi)(I)

- A3. **Need to halt or reduce activity.** The need to halt or reduce activity is not a defense for noncompliance. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. However, nothing in this item shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in assessing penalties for noncompliance if the health, safety or environmental impacts of halting or reducing operations would be more serious than the impacts of continuing operations.

TAPCR 1200-3-9-.02(11)(e)1(vi)(II)

- A4. **The permit.** The permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

TAPCR 1200-3-9-.02(11)(e)1(vi)(III)

- A5. **Property rights.** The permit does not convey any property rights of any sort, or any exclusive privilege.

TAPCR 1200-3-9-.02(11)(e)1(vi)(IV)

- A6. **Submittal of requested information.** The permittee shall furnish to the Technical Secretary, within a reasonable time, any information that the Technical Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or termination of the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Technical Secretary copies of records required to be kept by the permit. If the permittee claims that such information is confidential, the Technical Secretary may review that claim and hold the information in protected status until such time that the Board can hear any contested proceedings regarding confidentiality disputes. If the information is desired by EPA, the permittee may mail the information directly to EPA. Any claims of confidentiality for federal purposes will be determined by EPA.

TAPCR 1200-3-9-.02(11)(e)1(vi)(V)

- A7. Severability clause.** The requirements of this permit are severable. A dispute regarding one or more requirements of this permit does not invalidate or otherwise excuse the permittee from their duty to comply with the remaining portion of the permit.

TAPCR 1200-3-9.02(11)(e)1(v)

A8. Fee payment.

(a) The permittee shall pay an annual major source emission fee based upon the responsible official's choice of actual emissions or allowable emissions. An emission cap of 4,000 tons per year per regulated pollutant per major source SIC Code shall apply to actual or allowable based emission fees. A major source annual emission fee will not be charged for emissions in excess of the cap (s) or for carbon monoxide.

(b) Major sources who have filed a timely, complete operating permit application in accordance with 1200-3-9-.02(11), shall pay allowable emission based fees until the beginning of the next annual accounting period following receipt of their major source operating permit. At that time, the permittee shall begin paying their annual emission fee based upon their choice of actual or allowable based fees, or mixed actual and allowable based fees as stated under SECTION E of this permit. Once permitted, altering the existing choice shall be accomplished by a written request of the major source, filed in the office of the Technical Secretary at least one hundred eighty days prior to the expiration or reissuance of the major source operating permit.

(c) Major sources must conform to the following requirements with respect to fee payments:

1. If a major source choosing an allowable based annual emission fee wishes to restructure its allowable emissions for the purposes of lowering its annual emission fees, a mutually agreed upon, more restrictive regulatory requirement may be established to minimize the allowable emissions and thus the annual emission fee. The more restrictive requirement must be specified on the permit, and must include the method used to determine compliance with the limitation. The documentation procedure to be followed by the major source must also be included to insure that the limit is not exceeded. Restructuring the allowable emissions is permissible only in the annual accounting periods of eligibility and only, if the written request for restructuring is filed with the Technical Secretary at least 120 days prior to the beginning of the annual accounting period of eligibility. These periods of eligibility occur upon expiration of the initial major source operating permit, renewal of an expired major source operating permit or reissuance of a major source operating permit.

2. Beginning with the annual accounting period beginning July 1, 1997 to June 30, 1998, major sources paying on allowable based emission fees will be billed by the Division no later than April 1 prior to the end of the accounting period. The major source annual emission fee is due July 1 following the end of the accounting period.

3. Beginning with the annual accounting period beginning July 1, 1997 to June 30, 1998, major sources choosing an actual based annual emission fee shall file an actual emissions analysis with the Technical Secretary which summarizes the actual emissions of all regulated pollutants at the air contaminant sources of their facility. Based upon the actual emissions analysis, the source shall calculate the fee due and submit the payment and the analysis each July 1st following the end of the annual accounting period.

4. Beginning with the annual accounting period beginning July 1, 1997 to June 30, 1998, major sources choosing a mixture of allowable and actual based emission fees shall file an actual emissions and allowable emissions analysis with the Technical Secretary which summarizes the actual and allowable emissions of all regulated pollutants at the air contaminant sources of their facility. Based upon the analysis, the source shall calculate the fee due and submit the payment and the analysis each July 1st following the end of the annual accounting period.

The mixed based fee shall be calculated utilizing the 4,000 ton cap specified in subparagraph 1200-3-26-.02(2)(i). In determining the tonnages to be applied toward the regulated pollutant 4,000 ton cap in a mixed based fee, the source shall first calculate the actual emission based fees for a regulated pollutant and apply that tonnage toward the regulated pollutant's cap. The remaining tonnage available in the 4,000 ton category of a regulated pollutant shall be subject to allowable emission based fee calculations for the sources that were not included in the actual emission based fee calculations. Once the 4,000 ton cap has been reached for a regulated pollutant, no additional fee shall be required.

5. Major sources choosing to pay their major source annual emission fee based on actual based emissions or a mixture of allowable and actual based emissions may request an extension of time to file their emissions analysis with the Technical Secretary. The extension may be granted by the Technical Secretary up to ninety (90) days. The request for extension must be postmarked no later than July 1 or the request for extension shall be denied. The request for extension to file must state the reason and give an adequate explanation.

An estimated annual emission fee payment of no less than eighty percent (80%) of the fee due July 1 must accompany the request for extension to avoid penalties and interest on the underpayment of the annual emission fee. A remaining balance due must accompany the emission analysis. If there has been an overpayment, a refund may be requested in writing to the Division or be applied as a credit toward next year's major source annual emission fee. The request for extension of time is not available to major sources choosing to pay their major source annual emission fee based on allowable emissions.

6. Newly constructed major sources or minor existing sources modifying their operations such that they become a major source in the midst of the standard July 1st to June 30th annual accounting period, shall pay allowable based annual emission fees for the fractional remainder of the annual accounting period commencing upon their start-up. At the beginning of the next annual accounting period, the "responsible official" of the source may choose to pay annual emission fees based on actual or allowable emissions or a mixture of the two as provided for in this rule 1200-3-26-.02.

(d) Where more than one (1) allowable emission limit is applicable to a regulated pollutant, the allowable emissions for the regulated pollutants shall not be double counted. Major sources subject to the provisions of paragraph 1200-3-26-.02(9) shall apportion their emissions as follows to ensure that their fees are not double counted.

1. Sources that are subject to federally promulgated hazardous air pollutant standards that can be imposed under Chapter 1200-3-11 or Chapter 1200-3-31 will place such regulated emissions in the specific hazardous air pollutant under regulation. If the pollutant is also in the family of volatile organic compounds or the family of particulates, the pollutant shall not be placed in that respective family category.

2. A miscellaneous category of hazardous air pollutants shall be used for hazardous air pollutants listed at part 1200-3-26-.02(2)(i)12 that do not have an allowable emission standard. A pollutant placed in this category shall not be subject to being placed in any other category such as volatile organic compounds or particulates.

3. Each individual hazardous air pollutant and the miscellaneous category of hazardous air pollutants is subject to the 4,000 ton cap provisions of subparagraph 1200-3-26-.02(2)(i).

4. Major sources that wish to pay annual emission fees for PM₁₀ on an allowable emission basis may do so if they have a specific PM₁₀ allowable emission standard. If a major source has a total particulate emission standard, but wishes to pay annual emission fees on an actual PM₁₀ emission basis, it may do so if the PM₁₀ actual emission levels are proven to the satisfaction of the Technical Secretary. The method to demonstrate the actual PM₁₀ emission levels must be made as part of the source's major source operating permit in advance in order to exercise this option. The PM₁₀ emissions reported under these options shall not be subject to fees under the family of particulate emissions. The 4,000 ton cap provisions of subparagraph 1200-3-26-.02(2)(i) shall also apply to PM₁₀ emissions.

TAPCR 1200-3-26-.02 (3) and (9) and 1200-3-9-.02(11)(e)1(vii)

A9. **Permit revision not required.** A permit revision will not be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or process for changes that are provided for in the permit.

TAPCR 1200-3-9-.02(11)(e)1(viii)

A10. **Inspection and entry.** Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Technical Secretary or his authorized representative to perform the following for the purposes of determining compliance with the permit applicable requirements:

(a) Enter upon, at reasonable times, the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

(d) As authorized by the Clean Air Act and Chapter 1200-3-10 of TAPCR, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(e) "Reasonable times" shall be considered to be customary business hours unless reasonable cause exists to suspect noncompliance with the Act, Division 1200-3 or any permit issued pursuant thereto and the Technical Secretary specifically authorizes an inspector to inspect a facility at any other time.

TAPCR 1200-3-9-.02(11)(e)3.(ii)

A11. **Permit shield.**

(a) Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date of permit issuance, provided that:

1. Such applicable requirements are included and are specifically identified in the permit; or

2. The Technical Secretary, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
- (b) Nothing in this permit shall alter or affect the following:
 1. The provisions of section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section. Similarly, the provisions of T.C.A. §68-201-109 (emergency orders) including the authority of the Governor under the section;
 2. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 3. The applicable requirements of the acid rain program, consistent with section 408(a) of the Federal Act; or
 4. The ability of EPA to obtain information from a source pursuant to section 114 of the Federal Act.
- (c) Permit shield is granted to the permittee.

A12. Permit renewal and expiration.

- (a) Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted at least 180 days, but no more than 270 days prior to the expiration of this permit.
- (b) Provided that the permittee submits a timely and complete application for permit renewal the source will not be considered in violation of paragraph 1200-3-9-.02(11) until the Technical Secretary takes final action on the permit application, except as otherwise noted in paragraph 1200-3-9-.02(11).
- (c) This permit, its shield provided in Condition A11, and its conditions will be extended and effective after its expiration date provided that the source has submitted a timely, complete renewal application to the Technical Secretary.

TAPCR 1200-3-9-.02(11)(f)3 and 2, 1200-3-9-.02(11)(d)1(i)(III), and 1200-3-9-.02(11)(a)2

A13. Reopening for cause.

- (a) A permit shall be reopened and revised prior to the expiration of the permit under any of the circumstances listed below:
 1. Additional applicable requirements under the Federal Act become applicable to the sources contained in this permit provided the permit has a remaining term of 3 or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the permit expiration date of this permit, unless the original has been extended pursuant to 1200-3-9-.02(11)(a)2.
 2. Additional requirements become applicable to an affected source under the acid rain program.
 3. The Technical Secretary or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 4. The Technical Secretary or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- (b) Proceedings to reopen and issue a permit shall follow the same proceedings as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists, and not the entire permit. Such reopening shall be made as expeditiously as practicable.
- (c) Reopenings for cause shall not be initiated before a notice of such intent is provided to the permittee by the Technical Secretary at least 30 days in advance of the date that the permit is to be reopened except that the Technical Secretary may provide a shorter time period in the case of an emergency. An emergency shall be established by the criteria of T.C.A. 68-201-109 or other compelling reasons that public welfare is being adversely affected by the operation of a source that is in compliance with its permit requirements.
- (d) If the Administrator finds that cause exists to terminate, modify, or revoke and reissue a permit as identified in A13, he is required under federal rules to notify the Technical Secretary and the permittee of such findings in writing. Upon receipt of such notification, the Technical Secretary shall investigate the matter in order to determine if he agrees or disagrees with the Administrator's findings. If he agrees with the Administrator's findings, the Technical Secretary shall conduct the reopening in the following manner:

1. The Technical Secretary shall, within 90 days after receipt of such notification, forward to EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate. If the Administrator grants additional time to secure permit applications or additional information from the permittee, the Technical Secretary shall have the additional time period added to the standard 90 day time period.
2. EPA will evaluate the Technical Secretary's proposed revisions and respond as to their evaluation.
3. If EPA agrees with the proposed revisions, the Technical Secretary shall proceed with the reopening in the same manner prescribed under Condition A13 (b) and Condition A13 (c).
4. If the Technical Secretary disagrees with either the findings or the Administrator that a permit should be reopened or an objection of the Administrator to a proposed revision to a permit submitted pursuant to Condition A13(d), he shall bring the matter to the Board at its next regularly scheduled meeting for instructions as to how he should proceed. The permittee shall be required to file a written brief expressing their position relative to the Administrator's objection and have a responsible official present at the meeting to answer questions for the Board. If the Board agrees that EPA is wrong in their demand for a permit revision, they shall instruct the Technical Secretary to conform to EPA's demand, but to issue the permit under protest preserving all rights available for litigation against EPA.

TAPCR 1200-3-9-.02(11)(f)6 and 7.

- A14. Permit transference.** An administrative permit amendment allows for a change of ownership or operational control of a source where the Technical Secretary determines that no other change in the permit is necessary, provided that the following requirements are met:
- (a) Transfer of ownership permit application is filed consistent with the provisions of 1200-3-9-.03(6), and
 - (b) written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Technical Secretary.

TAPCR 1200-3-9-.02(11)(f)4(i)(IV) and 1200-3-9-.03(6)

- A15. Air pollution alert.** When the Technical Secretary has declared that an air pollution alert, an air pollution warning, or an air pollution emergency exists, the permittee must follow the requirements for that episode level as outlined in TAPCR 1200-3-9-.03(1) and TAPCR 1200-3-15-.03.

- A16. Construction permit required.** Except as exempted in TAPCR 1200-3-9-.04, TAPCR 1200-3-9-.02(11)(f)5, and sources considered insignificant under TAPCR 1200-3-9-.04(5), this facility shall not begin the construction of a new air contaminant source or the modification of an air contaminant source which may result in the discharge of air contaminants without first having applied for and received from the Technical Secretary a construction permit for the construction or modification of such air contaminant source.

TAPCR 1200-3-9-.01(1)(a)

- A17. Notification of changes.** The permittee shall notify the Technical Secretary 30 days prior to commencement of any of the following changes to an air contaminant source which would not be a modification requiring a construction permit.
- (a) change in air pollution control equipment
 - (b) change in stack height or diameter
 - (c) change in exit velocity of more than 25 percent or exit temperature of more than 15 percent based on absolute temperature.

TAPCR 1200-3-9-.02(7)

- A18. Schedule of compliance.** The permittee will comply with any applicable requirement that becomes effective during the permit term on a timely basis. If the permittee is not in compliance the permittee must submit a schedule for coming into compliance which must include a schedule of remedial measure(s), including an enforceable set of deadlines for specific actions.
- TAPCR 1200-3-9-.02(11)(d)3 and 40 CFR Part 70.5(c)

A19. Title VI.

(a) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR, Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:

1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to Section 82.156.
2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to Section 82.158.
3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to Section 82.161.

(b) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone depleting substance refrigerant in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR, Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

(c) The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program(SNAP) promulgated pursuant to 40 CFR, Part 82, Subpart G, Significant New Alternatives Policy Program.

A20. 112 (r). The permittee shall comply with the requirement to submit to the Administrator or designated State Agency a risk management plan, including a registration that reflects all covered processes, by June 21, 1999, if the permittee's facility is required pursuant to 40 CFR, 68, to submit such a plan.

SECTION B

GENERAL CONDITIONS for MONITORING, REPORTING, and ENFORCEMENT

- B1. Recordkeeping.** Monitoring and related record keeping shall be performed in accordance with the requirements specified in the permit conditions for each individual permit unit. In no case shall reports of any required monitoring and record keeping be submitted less frequently than at least 180 days.
- (a) Where applicable, records of required monitoring information include the following:
1. The date, place as defined in the permit, and time of sampling or measurements;
 2. The date(s) analyses were performed;
 3. The company or entity that performed the analysis;
 4. The analytical techniques or methods used;
 5. The results of such analyses; and
 6. The operating conditions as existing at the time of sampling or measurement.
- (b) Digital data accumulation which utilizes valid data compression techniques shall be acceptable for compliance determination as long as such compression does not violate an applicable requirement and its use has been approved in advance by the Technical Secretary.
- TAPCR 1200-3-9-.02(11)(e)1(iii)
- B2. Retention of monitoring data.** The permittee shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
- TAPCR 1200-3-9.02(11)(e)1(iii)(II)II
- B3. Reporting.** Reports of any required monitoring and record keeping shall be submitted to the Technical Secretary in accordance with the frequencies specified in the permit conditions for each individual permit unit. Reporting periods will be dated from the end of the first complete calendar quarter following issuance of this permit unless otherwise noted. Reports shall be submitted within 60 days of the close of the reporting period unless otherwise noted. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official. Reports required under "State only requirements" are not required to be certified by a responsible official.
- TAPCR 1200-3-9-.02(11)(e)1(iii)
- B4. Certification.** Except for reports required under "State Only" requirements, any application form, report or compliance certification submitted pursuant to the requirements of this permit shall contain certification by a responsible official of truth, accuracy and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
- TAPCR 1200-3-9-.02(11)(d)4
- B5. Annual compliance certification.** The permittee shall submit annually compliance certifications with terms and conditions contained in Sections A, B, D and E of this permit, including emission limitations, standards, or work practices. This compliance certification shall include all of the following (provided that the identification of applicable information may cross-reference the permit or previous reports, as applicable):
- (a) The identification of each term or condition of the permit that is the basis of the certification;
 - (b) The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period;
 - (c) Whether such method(s) or other means provide continuous or intermittent data. Such methods and other means shall include, at a minimum, the methods and means required by this permit. If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Federal Act, which prohibits knowingly making a false certification or omitting material information;
 - (d) The status of compliance with the terms and conditions of the permit for the period covered by the certification, based on the method or means designated in B5(b) above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion* or exceedance** as defined below occurred; and
 - (e) Such other facts as the Technical Secretary may require to determine the compliance status of the source.

* "Excursion" shall mean a departure from an indicator range established for monitoring under this paragraph, consistent with any averaging period specified for averaging the results of the monitoring.

** "Exceedance" shall mean a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of a percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring.

40 CFR Part 70.6(c)(5)(iii) as amended in the Federal Register Vol.62, No.204, October 22, 1997, pages 54946 and 54947

B6. Submission of compliance certification. The compliance certification shall be submitted to:

| | | |
|--|-----|---|
| The Technical Secretary Division of Air Pollution Control ATTN: Permit Program 9th Floor, L & C Annex 401 Church Street Nashville, Tennessee 37243-1531 | and | Air and EPCRA Enforcement Branch US EPA Region IV 61 Forsyth Street, SW Atlanta, Georgia 30303 |
|--|-----|---|

TAPCR 1200-3-9-.02(11)(e)3(v)(IV)

B7. Emergency provisions. An emergency constitutes an affirmative defense to an enforcement action brought against this source for noncompliance with a technology based emission limitation due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

(a) The affirmative defense of the emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

1. An emergency occurred and that the permittee can identify the probable cause(s) of the emergency. "Probable" must be supported by a credible investigation into the incident that seeks to identify the causes and results in an explanation supported by generally accepted engineering or scientific principles.

2. The permitted source was at the time being properly operated. In determining whether or not a source was being properly operated, the Technical Secretary shall examine the source's written standard operating procedures which were in effect at the time of the noncompliance and any other code as detailed below that would be relevant to preventing the noncompliance. Adherence to the source's standard operating procedures will be the test of adequate preventative maintenance, careless operation, improper operation or operator error to the extent that such adherence would prevent noncompliance. The source's failure to follow recognized standards of practice to the extent that adherence to such a standard would have prevented noncompliance will disqualify the source from any claim of an emergency and an affirmative defense.

3. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.

4. The permittee submitted notice of the emergency to the Technical Secretary according to the notification criteria for malfunctions in rule 1200-3-20-.03. For the purposes of this condition, "emergency" shall be substituted for "malfunction(s)" in rule 1200-3-20-.03 to determine the relevant notification threshold. The notice shall include a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding the permittee seeking to establish the occurrence of an emergency has the burden of proof.

(c) The provisions of this condition are in addition to any emergency, malfunction or upset requirement contained in Division 1200-3 or other applicable requirement.

TAPCR 1200-3-9-.02(11)(e)7

B8. Excess emissions reporting.

(a) The permittee shall promptly notify the Technical Secretary when any emission source, air pollution control equipment, or related facility breaks down in such a manner to cause the emission of air contaminants in excess of the applicable emission standards contained in Division 1200-3 or any permit issued thereto, or of sufficient duration to cause damage to property or public health. The permittee must provide the Technical Secretary with a statement giving all pertinent facts, including the estimated duration of the breakdown. Violations of the visible emission standard which occur for less than 20 minutes in one day (midnight to midnight) need not be reported. Prompt notification will be within 24 hours of the malfunction and shall be provided by telephone to the Division's Nashville office. The Technical Secretary shall be notified when the condition causing the failure or breakdown has been corrected. In attainment and unclassified areas if emissions other than from sources designated as significantly impacting on a nonattainment area in excess of the standards will not and do not occur over more than a 24-hour period (or will not recur over more than a 24-hour period) and no damage to property and or public health is anticipated, notification is not required.

(b) Any malfunction that creates an imminent hazard to health must be reported by telephone immediately to the Division's Nashville office and to the State Civil Defense.

(c) A log of all malfunctions, startups, and shutdowns resulting in emissions in excess of the standards in Division 1200-3 or any permit issued thereto must be kept at the plant. All information shall be entered in the log no later than twenty-four (24) hours after the startup or shutdown is complete, or the malfunction has ceased or has been corrected. Any later discovered corrections can be added in the log as footnotes with the reason given for the change. This log must record at least the following:

1. Stack or emission point involved
2. Time malfunction, startup, or shutdown began and/or when first noticed
3. Type of malfunction and/or reason for shutdown
4. Time startup or shutdown was complete or time the air contaminant source returned to normal operation
5. The company employee making entry on the log must sign, date, and indicate the time of each log entry

The information under items 1. and 2. must be entered into the log by the end of the shift during which the malfunction or startup began. For any source utilizing continuous emission(s) monitoring, continuous emission(s) monitoring collection satisfies the above log keeping requirement.

TAPCR 1200-3-20-.03 and .04

B9. Malfunctions, startups and shutdowns - reasonable measures required. The permittee must take all reasonable measures to keep emissions to a minimum during startups, shutdowns, and malfunctions. These measures may include installation and use of alternate control systems, changes in operating methods or procedures, cessation of operation until the process equipment and/or air pollution control equipment is repaired, maintaining sufficient spare parts, use of overtime labor, use of outside consultants and contractors, and other appropriate means. Failures that are caused by poor maintenance, careless operation or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions. This provision does not apply to standards found in 40 CFR, Parts 60(Standards of performance for new stationary sources), 61(National emission standards for hazardous air pollutants) and 63(National emission standards for hazardous air pollutants for source categories).

TAPCR 1200-3-20-.02

B10. Sources located in non-attainment areas or having significant impact on air quality in a non-attainment area. The owner or operator of all sources located in non-attainment areas or having a significant impact on air quality in a non-attainment area (for the pollutant designated) must submit a report to the Technical Secretary within thirty (30) days after the end of each calendar quarter listing the times at which malfunctions, startups and/or shutdowns, which resulted in emissions greater than any applicable emission limits and the estimated amount of emissions discharged during such times. This report shall also include total emissions during the quarter and be reported in a format specified by the Technical Secretary.

TAPCR 1200-3-20-.04(2)

B11. Report required upon the issuance of a notice of violation for excess emissions. The permittee must submit within twenty (20) days after receipt of the notice of violation, the data shown below to assist the Technical Secretary in deciding whether to excuse or validate the violation. If this data has previously been available to the Technical Secretary prior to the issuance of the notice of violation no further action is required of the violating source. However, if the source desires to submit additional information, then this must be submitted within the same twenty (20) day time period. The minimum data requirements are:

- (a) The identity of the stack and/or other emission point where the excess emission(s) occurred;
- (b) The magnitude of the excess emissions expressed in pounds per hour and the units of the applicable emission limitation and the operating data and calculations used in determining the magnitude of the excess emissions;
- (c) The time and duration of the emissions;
- (d) The nature and cause of such emissions;
- (e) For malfunctions, the steps taken to correct the situation and the action taken or planned to prevent the recurrence of such malfunctions;
- (f) The steps taken to limit the excess emissions during the occurrence reported, and
- (g) If applicable, documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good operating practices for minimizing emissions.

Failure to submit the required report within the twenty (20) day period specified shall preclude the admissibility of the data for consideration of excusal for malfunctions.

TAPCR 1200-3-20-.06(2),(3) and (4)

SECTION C

PERMIT CHANGES

- C1. Operational flexibility changes.** The source may make operational flexibility changes that are not addressed or prohibited by the permit without a permit revision subject to the following requirements:
- (a) The change cannot be subject to a requirement of Title IV of the Federal Act or Chapter 1200-3-30.
 - (b) The change cannot be a modification under any provision of Title I of the federal Act or Division 1200-3.
 - (c) Each change shall meet all applicable requirements and shall not violate any existing permit term or condition.
 - (d) The source must provide contemporaneous written notice to the Technical Secretary and EPA of each such change, except for changes that are below the threshold of levels that are specified in Rule 1200-3-9-.04.
 - (e) The change shall not qualify for a permit shield under the provisions of part 1200-3-9-.02(11)(e)6.
 - (f) The permittee shall keep a record describing the changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes. The records shall be retained until the changes are incorporated into subsequently issued permits.

TAPCR 1200-3-9-.02(11)(a)4 (ii)

- C2. Section 502(b)(10) changes.**
- (a) The permittee can make certain changes without requiring a permit revision, if the changes are not modifications under Title I of the Federal Act or Division 1200-3 and the changes do not exceed the emissions allowable under the permit. The permittee must, however, provide the Administrator and Technical Secretary with written notification within a minimum of 7 days in advance of the proposed changes. The Technical Secretary may waive the 7 day advance notice in instances where the source demonstrates in writing that an emergency necessitates the change. Emergency shall be demonstrated by the criteria of TAPCR 1200-3-9-.02(11)(e)7 and in no way shall it include changes solely to take advantages of an unforeseen business opportunity. The Technical Secretary and EPA shall attach each such notice to their copy of the relevant permit.
 - (b) The written notification must include the following:
 - 1. brief description of the change within the permitted facility;
 - 2. specifies the date on which the change will occur;
 - 3. declares any change in emissions; and
 - 4. declares any permit term or condition that is no longer applicable as a result of the change.
 - (c) The permit shield provisions of TAPCR 1200-3-9-.02(11)(e)6 shall not apply to Section 502(b)(10) changes.

TAPCR 1200-3-9-.02(11)(a)4 (i)

- C3. Administrative amendment.**
- (a) Administrative permit amendments to this permit shall be in accordance with 1200-3-9-.02(11)(f)4. The source may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request.
 - (b) The permit shield shall be extended as part of an administrative permit amendment revision consistent with the provisions of TAPCR 1200-3-9-.02(11)(e)6 for such revisions made pursuant to item (c) of this condition which meet the relevant requirements of TAPCR 1200-3-9-.02(11)(e), TAPCR 1200-3-9-.02(11)(f) and TAPCR 1200-3-9-.02(11)(g) for significant permit modifications.
 - (c) Proceedings to review and grant administrative permit amendments shall be limited to only those parts of the permit for which cause to amend exists, and not the entire permit.

TAPCR 1200-3-9-.02(11)(f)4

- C4. Minor permit modifications.**
- (a) The permittee may submit an application for a minor permit modification in accordance with TAPCR 1200-3-9-.02(11)(f)5(ii).
 - (b) The permittee may make the change proposed in its minor permit modification immediately after an application is filed with the Technical Secretary.
 - (c) Proceedings to review and modify permits shall be limited to only those parts of the permit for which cause to modify exists, and not the entire permit.
 - (d) Minor permit modifications do not qualify for a permit shield.

TAPCR 1200-3-9-.02(11)(f)5(ii)

- C5. Significant permit modifications.**

- (a) The permittee may submit an application for a significant modification in accordance with TAPCR 1200-3-9-.02(11)(f)5(iv).
- (b) Proceedings to review and modify permits shall be limited to only those parts of the permit for which cause to modify exists, and not the entire permit.

TAPCR 1200-3-9-.02(11)(f)5(iv)

C6. New construction or modifications.

Future construction at this source that is subject to the provisions of TAPCR 1200-3-9-.01 shall be governed by the following:

- (a) The permittee shall designate in their construction permit application the route that they desire to follow for the purposes of incorporating the newly constructed or modified sources into their existing operating permit. The Technical Secretary shall use that information to prepare the operating permit application submittal deadlines in their construction permit.
- (b) Sources desiring the permit shield shall choose the administrative amendment route of TAPCR 1200-3-9-.02(11)(f)4 or the significant modification route of TAPCR 1200-3-9-.02(11)(f)5(iv).
- (c) Sources desiring expediency instead of the permit shield shall choose the minor permit modification procedure route of TAPCR 1200-3-9-.02(11)(f)5(ii) or group processing of minor modifications under the provisions of TAPCR 1200-3-9-.02(11)(f)5(iii) as applicable to the magnitude of their construction.

TAPCR 1200-3-9-.02(11)(d) 1(i)(V)

SECTION D

GENERAL APPLICABLE REQUIREMENTS

- D1. Visible emissions.** With the exception of air emission sources exempt from the requirements of TAPCR Chapter 1200-3-5 and air emission sources for which a different opacity standard is specifically provided elsewhere in this permit, the permittee shall not cause, suffer, allow or permit discharge of a visible emission from any air contaminant source with an opacity in excess of twenty (20) percent for an aggregate of more than five (5) minutes in any one (1) hour or more than twenty (20) minutes in any twenty-four (24) hour period; provided, however, that for fuel burning installations with fuel burning equipment of input capacity greater than 600 million btu per hour, the permittee shall not cause, suffer, allow, or permit discharge of a visible emission from any fuel burning installation with an opacity in excess of twenty (20) percent (6-minute average) except for one six minute period per one (1) hour of not more than forty (40) percent opacity. Sources constructed or modified after July 7, 1992 shall utilize 6-minute averaging.

Consistent with the requirements of TAPCR Chapter 1200-3-20, due allowance may be made for visible emissions in excess of that permitted under TAPCR 1200-3-5 which are necessary or unavoidable due to routine startup and shutdown conditions. The facility shall maintain a continuous, current log of all excess visible emissions showing the time at which such conditions began and ended and that such record shall be available to the Technical Secretary or his representative upon his request.

TAPCR 1200-3-5-.01(1), TAPCR 1200-3-5-.03(6) and TAPCR 1200-3-5-.02(1)

- D2. General provisions and applicability for non-process gaseous emissions.** Any person constructing or otherwise establishing a non-portable air contaminant source emitting gaseous air contaminants after April 3, 1972, or relocating an air contaminant source more than 1.0 km from the previous position after November 6, 1988, shall install and utilize the best equipment and technology currently available for controlling such gaseous emissions.

TAPCR 1200-3-6-.03(2)

- D3. Non-process emission standards.** The permittee shall not cause, suffer, allow, or permit particulate emissions from non-process sources in excess of the standards in TAPCR 1200-3-6.

- D4. General provisions and applicability for process gaseous emissions.** Any person constructing or otherwise establishing an air contaminant source emitting gaseous air contaminants after April 3, 1972, or relocating an air contaminant source more than 1.0 km from the previous position after November 6, 1988, shall install and utilize equipment and technology which is deemed reasonable and proper by the Technical Secretary.

TAPCR 1200-3-7-.07(2)

- D5. Particulate emissions from process emission sources.** The permittee shall not cause, suffer, allow, or permit particulate emissions from process sources in excess of the standards in TAPCR 1200-3-7.

- D6. Sulfur dioxide emission standards.** The permittee shall not cause, suffer, allow, or permit Sulfur dioxide emissions from process and non-process sources in excess of the standards in TAPCR 1200-3-14. Regardless of the specific emission standard, new process sources shall utilize the best available control technology as deemed appropriate by the Technical Secretary of the Tennessee Air Pollution Control Board.

- D7. Fugitive Dust.**

(a) The permittee shall not cause, suffer, allow, or permit any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, but not be limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in demolition of existing buildings or structures, construction operations, grading of roads, or the clearing of land;
2. Application of asphalt, oil, water, or suitable chemicals on dirt roads, material stock piles, and other surfaces which can create airborne dusts;

3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods shall be employed during sandblasting or other similar operations.

(b) The permittee shall not cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five (5) minutes per hour or twenty (20) minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in Chapter 1200-3-20.

TAPCR 1200-3-8

- D8. **Open burning.** The permittee shall comply with the TAPCR 1200-3-4-.04 for all open burning activities at the facility.

TAPCR 1200-3-4

- D9. **Asbestos.** Where applicable, the permittee shall comply with the requirements of 1200-3-11-.02(d) when conducting any renovation or demolition activities at the facility.

TAPCR 1200-3-11-.02(d) and 40 CFR, Part 61

- D10. **Annual certification of compliance.** The generally applicable requirements set forth in Section D of this permit are intended to apply to activities and sources that are not subject to source-specific applicable requirements contained in State of Tennessee and U.S. EPA regulations. By annual certification of compliance, the permittee shall be considered to meet the monitoring and related record keeping and reporting requirements of TAPCR 1200-3-9-.02(11)(e)1.(iii) and 1200-3-10-.04(2)(b)1 and compliance requirements of TAPCR 1200-3-9-.02(11)(e)3.(i). The permittee shall submit compliance certification for these conditions annually.

SECTION E

SOURCE SPECIFIC EMISSION STANDARDS, OPERATING LIMITATIONS, and MONITORING, RECORDKEEPING and REPORTING REQUIREMENTS

16-0112 **Facility Description:** **Bumble Bee Boats, LLC.** is a manufacturer of fiberglass reinforced plastic boats. This facility is comprised of laminating, adhesive and gel coat operations that are carried out in spray booths. Other activities such as a woodshop, foaming, assembly, grinding and also take place at the source.
This source is subject to MACT for boat manufacturing pursuant to 40 CFR Subpart VVVV.

E1. Fee payment

Fee payment: Allowable emissions basis.

FEE EMISSIONS SUMMARY TABLE FOR MAJOR SOURCE 16-0112

| REGULATED POLLUTANTS | ALLOWABLE EMISSIONS (tons per AAP) | ACTUAL EMISSIONS (tons per AAP) | COMMENTS |
|--|---------------------------------------|------------------------------------|--|
| PARTICULATE MATTER (PM) | 68 | N/A | Includes all fee emissions |
| PM ₁₀ | N/A | N/A | |
| SO ₂ | N/A | N/A | |
| VOC | 37 | N/A | Includes all VOC HAPS |
| NO _x | N/A | N/A | |
| CATEGORY OF MISCELLANEOUS HAZARDOUS AIR POLLUTANTS (HAP WITHOUT A STANDARD)* | | | |
| VOC FAMILY GROUP | N/A | N/A | Included in VOC (above) |
| NON-VOC GASEOUS GROUP | 5.66 | AEAR | Fee emissions are not included in VOCs above |
| PM FAMILY GROUP | N/A | N/A | |
| CATEGORY OF SPECIFIC HAZARDOUS AIR POLLUTANTS (HAP WITH A STANDARD)** | | | |
| VOC FAMILY GROUP | N/A | N/A | MACT (40 CFR Part 63 Subpart VVVV). Fee emissions are included in VOC above |
| NON-VOC GASEOUS GROUP | N/A | N/A | |
| PM FAMILY GROUP | N/A | N/A | |
| CATEGORY OF NSPS POLLUTANTS NOT LISTED ABOVE*** | | | |
| EACH NSPS POLLUTANT NOT LISTED ABOVE | N/A | N/A | |

NOTES

AAP The Annual Accounting Period (AAP) is a twelve (12) consecutive month period that begins each July 1st and ends June 30th of the following year. The present Annual Accounting Period began July 1, 2006 and ends June 30, **2007**. The next Annual Accounting Period begins July 1, 2007 and ends June 30, 2008.

N/A N/A indicates that no emissions are specified for fee computation.

AEAR AEAR indicates that an Actual Emissions Analysis is Required to determine the actual emissions of:

- (1) **each regulated pollutant** (Particulate matter, SO₂, VOC, NO_x, and so forth. See TAPCR 1200-3-26-.02(2)(i) for the definition of a regulated pollutant.),
- (2) **each pollutant group** (VOC Family, Non-VOC Gaseous, and Particulate Family), and
- (3) the Miscellaneous HAP **Category** under consideration during the **Annual Accounting Period**.

- * **Category Of Miscellaneous HAP (HAP Without A Standard):** This category is made-up of hazardous air pollutants that do not have a federal or state standard. Each HAP is classified into one of three groups, the **VOC Family** group, the **Non-VOC Gaseous** group, or the **Particulate (PM) Family** group. **For fee computation**, the **Miscellaneous HAP Category** is subject to the 4,000 ton cap provisions of subparagraph 1200-3-26-.02(2)(i).
- ** **Category Of Specific HAP (HAP With A Standard):** This category is made-up of hazardous air pollutants (HAP) that are subject to Federally promulgated Hazardous Air Pollutant Standards that can be imposed under Chapter 1200-3-11 or Chapter 1200-3-31. Each individual hazardous air pollutant is classified into one of three groups, the **VOC Family** group, the **Non-VOC Gaseous** group, or the **Particulate (PM) Family** group. **For fee computation**, each individual hazardous air pollutant of the **Specific HAP Category** is subject to the 4,000 ton cap provisions of subparagraph 1200-3-26-.02(2)(i).
- *** **Category Of NSPS Pollutants Not Listed Above:** This category is made-up of each New Source Performance Standard (NSPS) pollutant whose emissions are not included in the **PM, SO₂, VOC or NO_x** emissions from each source in this permit. **For fee computation**, each **NSPS pollutant not listed above** is subject to the 4,000 ton cap provisions of subparagraph 1200-3-26-.02(2)(i).

END NOTES

- The permittee shall:**
- (1) Pay major source annual **allowable based emission fees**, as requested by the responsible official, in accordance with the above **Fee Emissions Summary Table** beginning July 1, **2006**.
 - (2) Prepare an **actual emissions analysis** for the period beginning July 1, **2006** in accordance with the above **Fee Emissions Summary Table**. The **actual emissions analysis** shall include:
 - (a) the completed **Fee Emissions Summary Table**,
 - (b) each **AEAR** required by the above **Fee Emissions Summary Table**, and
 - (c) the records or summary of records, required by Conditions **E7-1** (VOC Emission From Source 01), **E7-2** (NON-VOC HAP) and **E7-3** of this permit. These records shall be used to complete the **AEARs** required by the above **Fee Emissions Summary Table**.
 - (3) Submit the **actual emissions analysis** no later than 90 days after the end of each **annual accounting period**.

The Tennessee Air Pollution Control Division will bill the permittee no later than **April 1** prior to the end of each **annual accounting period**. The annual emission fee is due **July 1** following the end of each **annual accounting period**. If any part of any fee imposed under TAPCR 1200-3-26-.02 is not paid within fifteen (15) days of the due date, penalties shall at once accrue as specified in TAPCR 1200-3-26-.02(8). Emissions for regulated pollutants shall not be double counted as specified in Condition A8(d) of this permit.

Payment of the fee due and the actual emissions analysis shall be submitted to The Technical Secretary at the address in Condition E2(b) of this permit.

TAPCR 1200-3-26-.02 (3) and (9), and 1200-3-9-.02(11)(e)1 (iii) and (vii)

E2. Reporting requirements.

(a) Semiannual reports.

The first report since issuance of this permit renewal shall cover the following 6-month periods from **April 1, 2006** through **September 30, 2006** and **October 1, 2006** through **March 31, 2007** and these reports shall be submitted within 60 days after the end of each 6-month period. Subsequent reports shall be submitted within 60 days after the end of each 6-month period following the report.

Semiannual reports of this facility (**16-0112**) shall include:

- (1) Reports of any monitoring and recordkeeping required by Conditions **E7-1, E7-2, E7-3 and E7-5** of this permit. However, a summary Report of this data is acceptable provided there is sufficient information to enable the Technical Secretary to evaluate compliance.
- (2) The visible emission evaluation readings from Condition **E3**, of this permit if required
- (3) Identification of all instances of deviations from **ALL PERMIT REQUIREMENTS**.
- (4) In a letter dated-May 24, 2006, the permittee agreed to synchronize the Title V semiannual report, (condition **E2(a)**) with the reporting requirements of Subpart **VVVV**, (condition **E7-5**), known as **MACT**. At such time both reports can be submitted at the same time provided that no reporting gaps occur between any of the reports and each report shall be distinctively identified by title as follows:
 - (a) Title V Semiannual report for period of...
 - (b) Semiannual Report for period of ... Requirements of Subpart **VVVV**.

Both compliance reports must be postmarked or delivered no later the 60 days after the end of reporting period.

These reports shall be certified by a responsible official consistent with condition B4 of this permit and shall be submitted to The Technical Secretary at the address in Condition E2(b) of this permit.

TAPCR 1200-3-9-.02(11)(e)1.(iii)

(b) Annual compliance certification.

The permittee shall submit annually compliance certifications with terms and conditions contained in sections **A, B, D and E** of this permit, including emission limitations, standards, or work practices. This compliance certification shall include all of the following (provided that the identification of applicable information may cross-reference the permit or previous reports, as applicable):

- (1) The identification of each term or condition of the permit that is the basis of the certification;
- (2) The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period;
- (3) Whether such method(s) or other means provide continuous or intermittent data. Such methods and other means shall include, at a minimum, the methods and means required by this permit. If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Federal Act, which prohibits knowingly making a false certification or omitting material information;
- (4) The status of compliance with the terms and conditions of the permit for the period covered by the certification, based on the method or means designated in E2(b)2 above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion* or exceedance** as defined below occurred; and
- (5) Such other facts as the Technical Secretary may require to determine the compliance status of the source.
- (6) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by the Division of Air Pollution Control on or before the date it is due.
- (7) Compliance with the Annual Compliance Certification requirement found in this condition (E2) shall constitute compliance with the Annual Compliance Certification requirements found in conditions B5 and D10 of this permit.

* "Excursion" shall mean a departure from an indicator range established for monitoring under this paragraph, consistent with any averaging period specified for averaging the results of the monitoring.

** "Exceedance" shall mean a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of a percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring.

The first certification since issuance of this permit renewal shall cover the 12-month period from **April** 1, 2006, to **March** 31, 2007 and shall be submitted within 60 days after the 12-month period ending March 31, 2007. Subsequent certifications shall be submitted within 60 days after the end of each 12-month period following the first certification. These certifications shall be submitted to:

**The Technical Secretary
Division of Air Pollution Control
ATTN: Operating Permits Program
9th Floor, L & C Annex
401 Church Street
Nashville, Tennessee 37243-1531**

and

**Air and EPCRA Enforcement Branch
US EPA Region IV
61 Forsyth Street, SW
Atlanta, Georgia 30303**

40 CFR Part 70.6(c)(5)(iii) as amended in the Federal Register Vol.62, No.204, October 22, 1997, pages 54946 and 54947

(c) Retention of Records.

All records required by any condition in Section E of this permit must be retained for a period of not less than five years. Additionally, these records shall be kept available for inspection by the Technical Secretary or his representative. TAPCR 1200-3-9-.02(11)(e)1.(iii)(II)II

E3. Visible Emissions.

Visible emissions from emission sources within this permit unless noted otherwise shall not exceed 20 percent opacity except for one six minute period per one (1) hour or more than twenty-four (24) minutes in any twenty-four (24) hour period. Visible emissions from this source shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (6 minute average). TAPCR 1200-3-5-.03(6) and TAPCR 1200-3-5-.01(1)

Compliance Method: The permittee shall show compliance with the opacity standard utilizing the opacity matrix dated June 18, 1996 and amended September 12, 2005 that is enclosed as attachment #1.

If the magnitude and frequency of excursions reported by the permittee in the periodic monitoring for emissions is unsatisfactory to the Technical Secretary, this permit may be reopened to impose additional opacity monitoring requirements.

E4. The VOC content of all material used at this facility may be determined by using Material Safety Data Sheets (MSDS) or vendor formulation data which explicitly list the VOC content by weight.

E5. Purchase orders and invoices for all VOC and HAP containing materials along with material safety data sheets must be maintained and kept available for inspection by the Technical Secretary or his representative. These records must be retained for a period not less than five years.

E6. This permit reflects the first renewal of Title V permit 548578.

E7. SOURCE SPECIFIC EMISSION STANDARDS:

16-0112 Bumble Bee Boats, LLC
Fiberglass Boat Manufacturing

The Entire facility is considered one source comprised of the following Operations:

Gel coat Application-Two Spray Booths No.1 & No. 2 with Exhaust Filter Control for particulate matter emissions

Laminating & Adhesive Application – One Spray / Hand Lay-up Application Booth with Exhaust Filter Control

Other activities include a woodshop, foaming, assembly, grinding, and adhesive application.

E7-1. Volatile Organic Compound (VOC) emission limits

Volatile Organic Compound (VOCs) emitted from this source shall not exceed **37** tons over any consecutive 12 month period.

This emission limit is based upon the material usage rates specified in the application dated December 16, 1999 renewed on March 23, 2005 and the emission factors from the document entitled "Unified Emission Factors for Open Molding of Composites" dated April 7, 1999 and updated July 23, 2001. This document contains emission factors for Styrene and is enclosed as Attachment 2 to this permit.

TAPCR 1200-3-7-.07(2)

Compliance Method: For purposes of determining compliance with Volatile Organic Compound (VOC) and HAPs emission limit in condition **E7-1** of this permit, the permittee shall assure compliance by maintaining the record of VOC's and HAPs emissions as specified in **logs #1 & #2** in the formats below which contain the following information:

(i) Emissions in tons of each Hazardous Air Pollutant, (ii) Emissions in tons of all Hazardous Air Pollutants and (iii) Emissions in tons of VOCs excluding water and/or exempt compounds for all input materials used at this facility, (iv) emission factors for any volatile material which is not 100% evaporated. **Logs #1 & #2** must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. Records shall also be retained to verify the HAP content of each material. This may include MSDS, formulation data, or other documentation to establish the HAP content. These logs and required records must be retained for a period of not less than five years. All data, including all required calculations, must be entered in the **Logs #1 & #2** no later than 30 days from the end of the month for which the data is required.

LOG #1 - Monthly VOC and HAPS Emissions for source 16-0112

MONTH _____

YEAR _____

| Material Used ¹ | NEAT MATERIAL USAGE RATE * TONS PER MONTH | METHOD OF APPLICATION | % STYRENE (HAP 1) BY WEIGHT | STYRENE (HAP 1) EMISSION FACTOR ** | STYRENE (HAP-1) EMITTED TONS PER MONTH | METHYL METHACRYLATE (MMA) (HAP 2) % BY WEIGHT | Methyl Methacrylate (HAP 2) EMISSION FACTOR* | Methyl Methacrylate (MMA) HAP 2 EMITTED TONS PER MONTH | TOTAL HAPS EMITTED TONS PER MONTH | TOTAL VOC EMITTED TONS PER MONTH |
|----------------------------|--|-----------------------|-----------------------------|------------------------------------|--|---|--|--|-----------------------------------|----------------------------------|
| | | | | | | | 75% | | | |
| | | | | | | | 75% | | | |
| | | | | | | | 75% | | | |
| | | | | | | | 75% | | | |
| | | | | | | | 75% | | | |
| TOTAL | | | | | | | | | | |

***NOTE:**

- The permittee shall utilize emission factors for Styrene found in Attachment #2 (Emission Factors for Liquid Organic Peroxide Catalysts used in the Open Molding of Composites) dated April 7, 1999 up dated July 23, 2001.
- If VOC or HAP-containing materials other than these listed above are used, an emission factor of 100% will be utilized.
- A set of example calculations must be presented for each month of reporting period.
- If Vapor Suppressed Resin (VSR) is used at this facility, the VSR reduction factor will be determined by testing each resin suppressed formulation according to the procedure detailed in the CFA Vapor Suppressed Effectiveness Test.
- Expand this log, if additional HAPs other than specified in the table are emitted.
- Emissions of MEKP (methyl ethyl ketone peroxide) and DMP (dimethyl phthalate) are considered to be negligible; therefore, records of usage rates for these materials not need to be maintained.
- Based on "Emissions Factors for Liquid Organic Peroxide Catalysts used in the Open Molding of Composites" dated April 7, 1999" 75% of MMA (methyl methacrylate) used in the process is estimated to evaporate.

* Neat material usage rate is defined as the amount of material used excluding fillers and glass.

** Based on Attachment #2, Unified Emission Factors for Open Molding of Composites, dated July 23, 2001.

Log #2 - Yearly VOC and HAPS Emissions for source 16-0112-01

| Month / Year | VOC Emissions Tons per Month | (*)VOC Emissions Tons per 12 Month | (**)Total HAPs Emissions (for Fee Purposes) |
|---------------------|---|---|--|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

(*) The Tons per 12 Month value is the sum of the VOC emissions in the 11 months preceding the month just completed + the VOC emissions in the month just completed. If data is not available for the 11 months preceding the initial use of this log, this value will be equal to the value for tons per month. For the second month it will be the sum of the first month and the second month. Indicate in parentheses the number of months summed, that is, 6 (2) represents 6 tons emitted in 2 months.

(* *) For fee purposes the fee accounting period begins each July 1st and ends on June 30th of the following year.

E7-2. Non-VOC HAP Emission limits

Methylene Chloride emissions (a **Non-VOC HAP** Clean-up solvent used at this source) shall not exceed **5.66 tons** during all intervals of 12 consecutive months.

DEFINITION OF NON-VOC: a hydrocarbon which is an “exempt compound” as defined in the Tennessee Air Pollution Control Regulations Chapter 1200-3-18-.01(26).

DEFINITION OF “HAP”: Hazardous Air Pollutants are defined in the Tennessee Air Pollution Control Regulations Chapter 1200-3-31-.02(6).

TAPCR: 1200-3-7-.07(2)

Compliance Method: The Permittee shall assure compliance with condition E7-2 by maintaining a log with the following information, and calculating the Methylene Chloride emissions from monthly usage records at this source. This log must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This log must be retained for a period of not less than five years. All data entries must be completed no later than 30 days from the end of the month in which the data was taken.

| Material Used | Gal/Month | lb/Gal | Pounds per Month | Tons per Month | Tons per 12 consecutive Months * |
|---------------|-----------|--------|------------------|----------------|----------------------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Total | | | | | |

(*) The Tons per 12 Month value is the sum of the VOC emissions in the 11 months preceding the month just completed + the VOC emissions in the month just completed. If data is not available for the 11 months preceding the initial use of this log, this value will be equal to the value for tons per month. For the second month it will be the sum of the first month and the second month. Indicate in parentheses the number of months summed, that is, 6 (2) represents 6 tons emitted in 2 months.

E7-3. Particulate Matter Emission limits

Particulate matter emitted from the two spray booths source shall not exceed 0.02 grain per dry standard cubic foot (15.57 pounds per hour). The spray booths shall not operate without the use of exhaust filter control.

TAPCR 1200-3-7-.04(1).

Compliance Method: This process shall not operate without filter control in any spray booth. To assure compliance with condition E7-3 of this permit, the permittee shall maintain the record of inspections and dates on which filters are replaced. These record shall be maintained for at least five years. Information from this log shall be summarized on a monthly basis and shall be reported in accordance with Condition **E2** of this permit. The inspection and filter replacement log shall be made available to the Technical Secretary or his representative upon request. All required data, must be entered in the **Logs # 3** no later than 30 days from the end of the month for which the data is required.

Log #3 Monthly Maintenance Log For Spray Booths at This Facility

MONTH _____

YEAR _____

| Date | Unit/Spray Booth I.D | Repair/Maintenance/ Filter Replacement Performed | Person making Log Entry | Comments |
|------|----------------------|--|-------------------------|----------|
| | | | | |
| | | | | |
| | | | | |

E7-4. Where this permit requires that information to be presented in a specific format, the permittee may use an alternate format as long as the required information is provided.

E7-5. MACT Requirements

This facility is an existing source, which is required to comply with all applicable requirements found at 40 CFR 63 Subpart VVVV-National Emission Standards for Boat Manufacturing and Subpart A-General Provisions, as specified at §63.5773 of Subpart VVVV (Table 8), (Attachment #4 to this permit). The compliance date for this facility is August 23, 2004 because it is considered to be an existing source under the provisions of §63.5962. The applicable requirements include, but are not limited to, the following provisions:

- (a) The permittee shall limit organic HAP emissions from five open molding operations (Production resin, Pigmented gel coat, Clear coat, Tooling resin and Tooling gel coat) to the emission limit specified by Equation 1 at §63.5698 based on 12-month rolling average.

$$\text{HAP Limit} = [46(M_R) + 159(M_{PG}) + 291(M_{CG}) + 54(M_{TR}) + 214(M_{TG})] \quad (\text{Eq. 1})$$

Where:

HAP Limit= total allowable organic HAP that can be emitted from the open molding operations, kilograms.

M_R = mass of production resin used in the past 12 months, excluding any materials exempt under paragraph (d) of §63.5695, megagrams.

M_{PG} = mass of pigmented gel coat used in the past 12 months, excluding any materials exempt under paragraph (d) of §63.5695, megagrams.

M_{CG} = mass of clear gel coat used in the past 12 months, excluding any materials exempt under paragraph (d) of §63.5695, megagrams.

M_{TR} = mass of tooling resin used in the past 12 months, excluding any materials exempt under paragraph (d) of §63.5695, megagrams.

M_{TG} = mass of tooling gel coat used in the past 12 months, excluding any materials exempt under paragraph (d) §63.5695, megagrams.

- (b) **Alternate Compliance Plans:** The permittee shall demonstrate compliance with the emission limit specified by Equation 1 at 40 CFR §63.5698 condition (E6-4 (a)) of this permit, by using one or both of the two options listed below:

- (1). Maximum achievable control technology (MACT) point value averaging (emissions averaging) option described at 40 CFR §63.5701(a).
- (2). Compliant materials option described at 40 CFR §63.5701(b).

The permittee shall indicate the method by which compliance is demonstrated for each source whether by MACT Point Value described at 40 CFR §63.5701(a) or compliant Materials Option described at 40 CFR §63.5701(b). The compliance method for a source may not be changed more frequently than on a monthly basis.

- (c) For those open molding operations and materials complying using the **emissions averaging** option, the permittee shall demonstrate compliance by following the steps described in paragraphs (a)(1) through (5) of §63.5704.
- (d) For each open molding operation complying using the compliant materials option, the permittee shall demonstrate compliance by performing steps (b)(1) through (4) of §63.5704.
- (e) The permittee must prepare an implementation plan meeting the requirements of 40 CFR §63.5707 for all open molding operations meeting the requirements described in §63.5704.
- (f) The permittee may demonstrate compliance using **emissions averaging** option on a 12-month rolling average basis, determined at the end of every month calculated with Equation 1 described in 40 CFR §63.5710:

$$\text{HAP Emissions} = [(PV_R)(M_R) + (PV_{PG})(M_{PG}) + (PV_{CG})(M_{CG}) + (PV_{TR})(M_{TR}) + (PV_{TG})(M_{TG})] \quad (\text{Eq. 1})$$

Where:

HAP Emissions = Organic HAP emissions calculated using MACT model point values for each operation included in the average, kilograms.

PV_R = Weighted-average MACT model point value for production resin used in the past 12 months, kilograms per megagram.

M_R = mass of production resin used in the past 12 months, megagrams.

PV_{PG} = Weighted-average MACT model point value for production gel coat used in the past 12 months, kilograms per megagram.

M_{PG} = mass of pigmented gel coat used in the past 12 months, megagrams.

PV_{CG} = Weighted-average MACT model point value for clear gel coat used in the past 12 months, kilograms per megagram.

M_{CG} = mass of clear gel coat used in the past 12 months, megagrams.

PV_{TR} = Weighted-average MACT model point value for tooling resin used in the past 12 months, kilograms per megagram.

M_{TR} = mass of tooling resin used in the past 12 months, megagrams.

PV_{TG} = Weighted-average MACT model point value for tooling gel coat used in the past 12 months, kilograms per megagram.

M_{TG} = mass of tooling gel coat used in the past 12 months, megagrams.

- (g) When using the emissions averaging option, at the end of every month, the permittee shall use equation 2 of §63.5710 to compute the weighted-average MACT model point value for each open molding resin and gel coat included in the average:

(Eq. 2)

$$PV_{OP} = \frac{\sum_{i=1}^n (M_i PV_i)}{\sum_{i=1}^n (M_i)}$$

Where:

PV_{OP} = weighted-average MACT model point value for each open molding operation (PV_R , PV_{PG} , PV_{CG} , PV_{TR} , PV_{TG}) included in the average, kilograms per megagram of material applied.

M_i = mass of resin or gel coat i used in the past 12 months in an operation

PV_i = the MACT model point value for resin or gel coat i used in the past 12 months in an operation, kilograms of HAP per megagram of material applied.

n = number of different open molding resins or gel coats used in the past 12 months in an operation.

- (h) If using the **compliant materials** option, the permittee shall demonstrate compliance for open molding resin and gel coat by complying with the organic HAP content requirements as specified at **Table 2** of Subpart VVVV, (Attachment #3 of this permit) based on a 12-consecutive month rolling average calculated at the end of every month following the methods described at 40 CFR §63.5713.
- (i) To demonstrate compliance using a filled production resin or a filled tooling resin, the permittee will demonstrate compliance for the filled material on an as applied basis using equation 1 of section §63.5714:

$$PV_F = PV_U \times \frac{(100 - \% \text{ Filler})}{100}$$

Where:

PV_F = The as-applied MACT model point value for a filled production or tooling resin, kilograms organic HAP per megagram of filled material

PV_U = The MACT model point value for the neat (unfilled) resin, before filler is added, as calculated using the formulas in Table 3 to 40 CFR Part 63 Subpart VVVV.

% Filler = The weight-percent of filler in the as-applied filled resin system.

- (j) The materials specified in paragraphs a. through c. of this subsection are exempt from the open molding emission limit specified in paragraph E7-5(2) of this permit and §63.5698(d):
 - a. Production resins (including skin coat resins) that must meet specifications for use in military vessels or must be approved by the U.S. Coast Guard for use in the construction of lifeboats, rescue boats, and other lifesaving applications approved under 46 CFR subchapter Q or the construction of small passenger vessels regulated by 46 CFR subchapter T. Production resins for which this exemption is used must be applied with nonatomizing (nonspray) resin application equipment.
 - b. Pigmented, clear, and tooling gel coats used for part or mold repair and touch up. The total gel coat materials included in this exemption must not exceed 1 percent by weight of all gel coat used at the permitted facility on a 12-month rolling-average basis. The permittee shall keep a record of the amount of gel coats used per month for which this exemption is used and copies of calculations showing that the exempt amount does not exceed 1 percent of all gel coat used.
 - c. Pure, 100 percent vinylester resin used for skin coats. This exemption does not apply to blends of vinylester and polyester resins used for skin coats. The total resin materials included in the exemption cannot exceed 5 percent by weight of all resins used at the permitted facility on a 12-month rolling average basis. The permittee shall keep a record of the amount of 100 percent vinylester skin coat resin used per month that is eligible for this exemption and copies of calculations showing that the exempt amount does not exceed 5 percent of all resin used.
- (k) The work practice standards and recordkeeping requirements for resin and gel coat mixing operations as specified at §63.5731.
- (l) The standards for resin and gel coat equipment cleaning operations specified at §63.5734, which includes using a cleaning solvent that contains no more than 5% organic HAP by weight for routine flushing of resin and gel coat application equipment (e.g. spray guns, flow coaters, brushes, rollers and squeegees). For removing cured resin or gel coat from application equipment, no organic HAP content limit applies (§63.5734(a)).
- (m) The methods for demonstration of compliance with the resin and gel coat application equipment cleaning standards specified at §63.5737 and recordkeeping requirements.
- (n) The carpet and fabric adhesive operation standards specified at §63.5740, including the requirement to use carpet and fabric adhesives that contain no more than 5% organic HAP by weight and recordkeeping requirements.
- (o) The organic HAP content determination requirements specified at §63.5758
- (p) The notification requirements specified at §63.5761, included at Table 7 to Subpart VVVV
- (q) The “semiannual” report submittal requirements specified at §63.5764
- (r) The recordkeeping requirements specified at §63.5767
- (s) The recordkeeping format specified at §63.5770
- (t) The requirements of the General Provisions of 40 CFR 63 Subpart A, Table 8 to Subpart VVVV
- (u) As specified in 40 CFR §63.5683(d), the hazardous air pollutant requirements of this permit do not apply to antifoulant coatings, assembly adhesives, fiberglass hull and deck coatings, research and development activities, mold sealing and release agents, mold stripping and cleaning solvents, and cleaning solvents, and wood coatings as defined in §63.5779.
- (V) As specified §63.5728, the resin and gel coat HAP concentration limitations of this permit and of 40 CFR 63 Subpart VVVV, do not apply to resin application operations that meet the definition of closed molding as specified in §63.5779.

END OF PERMIT CONDITIONS

ATTACHMENT #1
OPACITY MATRIX DECISION TREE

FOR

VISIBLE EMISSION EVALUATION METHODS EPA Method 9 DATED JUNE 18, 1996 Amended
September 12, 2005

Decision Tree PM for Opacity for Sources Utilizing EPA Method 9*

Notes:

PM = Periodic Monitoring required by 1200-3-9-.02(11)(e)(iii).

This Decision Tree outlines the criteria by which major sources can meet the periodic monitoring and testing requirements of Title V for demonstrating compliance with the visible emission standards in paragraph 1200-3-5-.01. It is not intended to determine compliance requirements for EPA's Compliance Assurance Monitoring (CAM) Rule (formerly referred to as Enhanced Monitoring – Proposed 40 CFR 64).

Examine each emission unit using this Decision Tree to determine the PM required.*

Use of continuous emission monitoring systems eliminates the need to do any additional periodic monitoring.

Visible Emission Evaluations (VEEs) are to be conducted utilizing EPA Method 9. The observer must be properly certified to conduct valid evaluations.

Typical Pollutants
Particulates, VOC, CO, SO₂, NO_x, HCl, HF, HBr, Ammonia, and Methane.

Initial observations are to be repeated within 90 days of startup of a modified source, if a new construction permit is issued for modification of the source.

A VEE conducted by TAPCD personnel after the Title V permit is issued will also constitute an initial reading.

Reader Error
EPA Method 9, Non-NSPS or NESHAPS stipulated opacity standards:
The TAPCD guidance is to declare non-compliance when the highest six-minute average** exceeds the standard plus 6.8% opacity (e.g. 26.8% for a 20% standard).

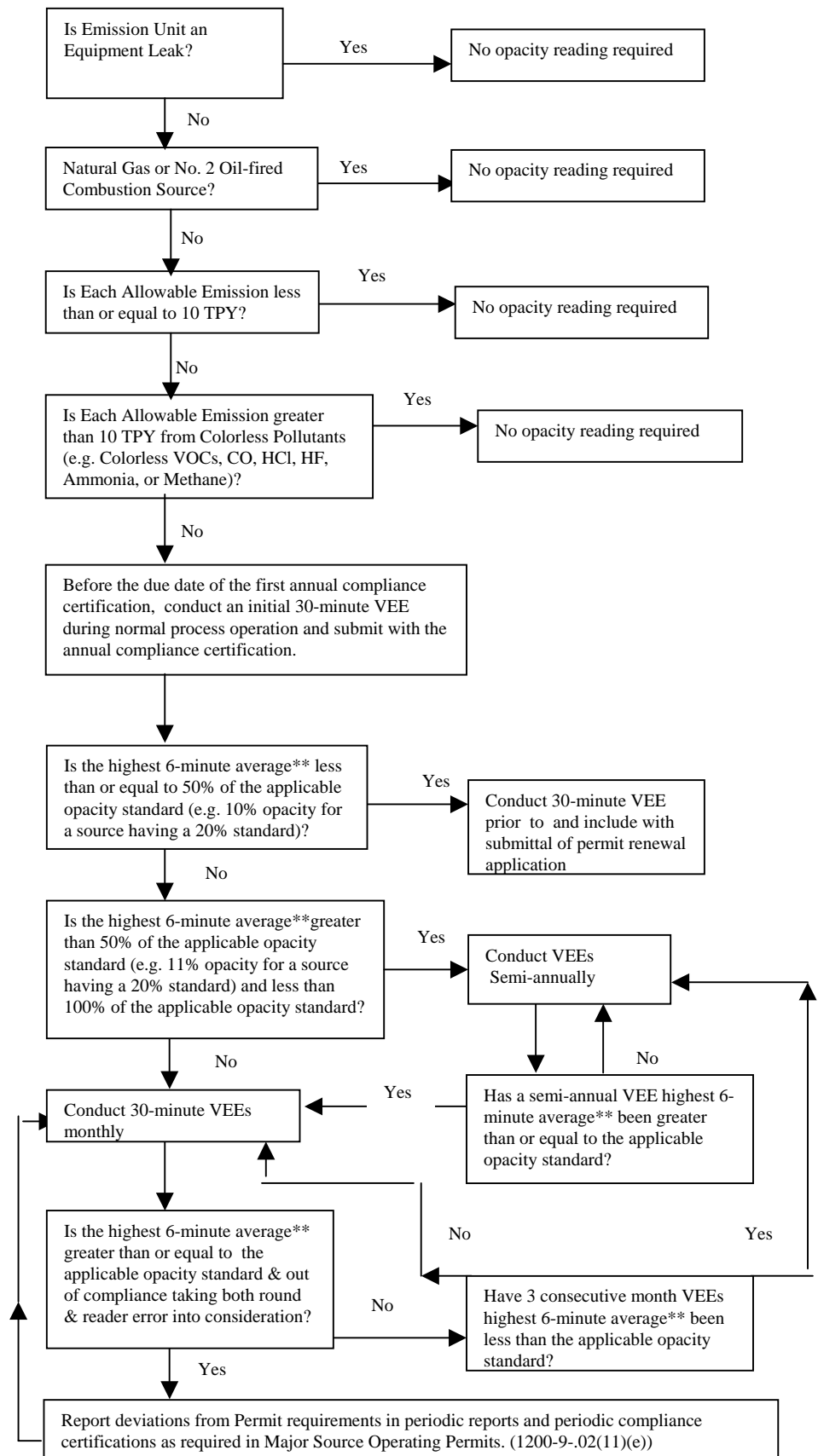
EPA Method 9, NSPS or NESHAPS stipulate opacity standards:
EPA guidance is to allow only engineering round. No allowance for reader error is given.

*Not applicable to Asbestos manufacturing subject to 40 CFR 61.142

**Or second highest six-minute average, if the source has an exemption period stipulated in either the regulations or in the permit.

Dated June 18, 1996

Amended September 12, 2005



Attachment #2

UNIFIED EMISSION FACTORS FOR OPEN MOLDING OF COMPOSITES

July 23, 2001

Emission Rate in Pounds of Styrene Emitted per Ton of Resin or Gel coat Processed

| Styrene content in resin/gelcoat, % ⁽¹⁾ | <33 ⁽²⁾ | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | >50 ⁽²⁾ |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Manual | 0.126 x %styrene x 2000 | 83 | 89 | 94 | 100 | 106 | 112 | 117 | 123 | 129 | 134 | 140 | 146 | 152 | 157 | 163 | 169 | 174 | 180 | ((0.286 x %styrene) - 0.0529) x 2000 |
| Manual w/ Vapor Suppressed Resin VSR ⁽³⁾ | Manual emission factor [listed above] x (1 - (0.50 x specific VSR reduction factor for each resin/suppressant formulation)) | | | | | | | | | | | | | | | | | | | |
| Mechanical Atomized | 0.169 x %styrene x 2000 | 111 | 126 | 140 | 154 | 168 | 183 | 197 | 211 | 225 | 240 | 254 | 268 | 283 | 297 | 311 | 325 | 340 | 354 | ((0.714 x %styrene) - 0.18) x 2000 |
| Mechanical Atomized with VSR ⁽³⁾ | Mechanical Atomized emission factor [listed above] x (1 - (0.45 x specific VSR reduction factor for each resin/suppressant formulation)) | | | | | | | | | | | | | | | | | | | |
| Mechanical Atomized Controlled Spray ⁽⁴⁾ | 0.130 x %styrene x 2000 | 86 | 97 | 108 | 119 | 130 | 141 | 152 | 163 | 174 | 185 | 196 | 207 | 218 | 229 | 240 | 251 | 262 | 273 | 0.77 x ((0.714 x %styrene) - 0.18) x 2000 |
| Mechanical Controlled Spray with VSR | Mechanical Atomized Controlled Spray emission factor [listed above] x (1 - (0.45 x specific VSR reduction factor for each resin/suppressant formulation)) | | | | | | | | | | | | | | | | | | | |
| Mechanical Non-Atomized | 0.107 x %styrene x 2000 | 71 | 74 | 77 | 80 | 83 | 86 | 89 | 93 | 96 | 99 | 102 | 105 | 108 | 111 | 115 | 118 | 121 | 124 | ((0.157 x %styrene) - 0.0165) x 2000 |
| Mechanical Non-Atomized with VSR ⁽³⁾ | Mechanical Non-Atomized emission factor [listed above] x (1 - (0.45 x specific VSR reduction factor for each resin/suppressant formulation)) | | | | | | | | | | | | | | | | | | | |
| Filament application | 0.184 x %styrene x 2000 | 122 | 127 | 133 | 138 | 144 | 149 | 155 | 160 | 166 | 171 | 177 | 182 | 188 | 193 | 199 | 204 | 210 | 215 | ((0.2746 x %styrene) - 0.0298) x 2000 |
| Filament application with VSR ⁽³⁾ | 0.120 x %styrene x 2000 | 79 | 83 | 86 | 90 | 93 | 97 | 100 | 104 | 108 | 111 | 115 | 118 | 122 | 125 | 129 | 133 | 136 | 140 | 0.65 x ((0.2746 x %styrene) - 0.0298) x 2000 |
| Gelcoat Application | 0.445 x %styrene x 2000 | 294 | 315 | 336 | 356 | 377 | 398 | 418 | 439 | 460 | 481 | 501 | 522 | 543 | 564 | 584 | 605 | 626 | 646 | ((1.03646 x %styrene) - 0.195) x 2000 |
| Gelcoat Controlled Spray Application ⁽⁴⁾ | 0.325 x %styrene x 2000 | 215 | 230 | 245 | 260 | 275 | 290 | 305 | 321 | 336 | 351 | 366 | 381 | 396 | 411 | 427 | 442 | 457 | 472 | 0.73 x ((1.03646 x %styrene) - 0.195) x 2000 |
| Gelcoat Non-Atomized Application ⁽⁸⁾ | SEE Note 9 below | 196 | 205 | 214 | 223 | 232 | 241 | 250 | 259 | 268 | 278 | 287 | 296 | 305 | 314 | 323 | 332 | 341 | 350 | ((0.4506 x %styrene) - 0.0505) x 2000 |
| Covered-Cure after Roll-Out | Non-VSR process emission factor [listed above] x (0.80 for Manual <or> 0.85 for Mechanical) | | | | | | | | | | | | | | | | | | | |
| Covered-Cure without Roll-Out | Non-VSR process emission factor [listed above] x (0.50 for Manual <or> 0.55 for Mechanical) | | | | | | | | | | | | | | | | | | | |

Emission Rate in Pounds of Methyl Methacrylate Emitted per Ton of Gelcoat Processed

| MMA content in gelcoat, % ⁽⁶⁾ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | ≥20 |
|--|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
| Gel coat application ⁽⁷⁾ | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 | 285 | 0.75 x %MMA x 2000 |

Notes

- Including styrene monomer content as supplied, plus any extra styrene monomer added by the molder, but before addition of other additives such as powders, fillers, glass,...etc.
- Formulas for materials with styrene content < 33% are based on the emission rate at 33% (constant emission factor expressed as percent of available styrene), and for styrene content > 50% on the emission rate based on the extrapolated factor equations; these are not based on test data but are believed to be conservative estimates. The value for "% styrene" in the formulas should be input as a fraction. For example, use the input value 0.30 for a resin with 30% styrene content by wt.
- The VSR reduction factor is determined by testing each resin/suppressant formulation according to the procedures detailed in the *CFA Vapor Suppressant Effectiveness Test*.
- SEE the *CFA Controlled Spray Handbook* for a detailed description of the controlled spray procedures.
- The effect of vapor suppressants on emissions from filament winding operations is based on the *Dow Filament Winding Emissions Study*.
- Including MMA monomer content as supplied, plus any extra MMA monomer added by the molder, but before addition of other additives such as powders, fillers, glass,...etc.
- Based on gelcoat data from *NMMA Emission Study*.
- SEE the July 17, 2001 EECS report *Emission Factors for Non-Atomized Application of Gel Coats used in the Open Molding of Composites* for a detailed description of the non-atomized gelcoat testing.

9 Use the equation $((0.4506 \times \% \text{styrene}) - 0.0505) \times 2000$ for gelcoats with styrene contents between 19% and 32% by wt.; use the equation $0.185 \times \% \text{styrene} \times 2000$ for gelcoats with less than 19% styrene content by wt.

Attachment 3

TABLE 2 TO SUBPART VVVV – ALTERNATIVE ORGANIC HAP CONTENT REQUIREMENTS FOR OPEN MOLDING RESIN AND GEL COAT OPERATIONS AS SPECIFIED IN §§63.5701(b), 63.5704(b)(2), AND 63.5713(a), (b), AND (d). YOU MUST COMPLY WITH THE REQUIREMENTS IN THE FOLLOWING TABLE:

| FOR THIS OPERATION | APPLICATION METHOD | YOU MUST NOT EXCEED THIS WEIGHTED-AVERAGE ORGANIC HAP CONTENT (WEIGHT PERCENT) REQUIREMENT |
|---------------------------------|--------------------------|--|
| 1.Production Resin Operations | Atomized (Spray) | 28 Percent (%) |
| 2.Production Resin Operations | Non-atomized (Non-Spray) | 35 Percent (%) |
| 3.Pigmented Gel Coat Operations | Any Method | 33 Percent (%) |
| 4.Clear Gel Coat Operations | Any Method | 48 Percent (%) |
| 5.Tooling Resin Operations | Atomized (Spray) | 30 Percent (%) |
| 6.Tooling Resin Operations | Non-atomized (Non-Spray) | 39 Percent (%) |
| 7.Tooling Gel Coat Operations | Any Method | 40 Percent (%) |

Nonatomized resin application refers to manual application, pressure-fed rollers, flow coater, and chopper flowcoaters, as defined at §63.5779.

Compliance Method: The permittee shall calculate the weighted-average organic HAP content for all resins and gel coats used in each operation in the past 12 months. The following equation shall be used to determine compliance for each of the above categories of material:

$$\text{Weighted - Average HAP Content (\%)} = \frac{\sum_{i=1}^n (M_i \text{ HAP}_i)}{\sum_{i=1}^n (M_i)}$$

Where:

M_i = mass of open molding resin or gel coat i used in the past 12 months in an operation, pounds.

HAP_i = Organic HAP content, by weight percent, of open molding resin or gel coat i used in the past 12 months in an operation. Use the methods in §63.5758 to determine organic HAP content.

n = number of different open molding resins or gel coats used in the past 12 months in an operation.

If the weighted-average organic HAP content does not exceed the applicable organic HAP content limit specified in Table 2 to Subpart VVVV (shown above), then you are in compliance with the emission limit specified in §63.5698 (see E7-5a & b).

Attachment 4

TABLE 8 TO SUBPART VVVV OF PART 63.—APPLICABILITY OF GENERAL PROVISIONS (40 CFR Part 63, Subpart A) TO SUBPART VVVV

| Citation | Subject | Applicability to subpart VVVV | Explanation |
|-----------------|---|-------------------------------|--|
| §63.1(a) | General Applicability | Yes | |
| §63.1(b) | Initial Applicability Determination | Yes | Applicability to subpart VVVV is also specified in §63.3881. |
| §63.1(c)(1) | Applicability After Standard Established | Yes | |
| §63.1(c)(2) | | Yes | Area sources are not subject to subpart VVVV. |
| §63.1(c)(4)-(5) | Extension and Notifications | Yes | |
| §63.1(e) | Applicability of Permit Program Before Relevant Standard is Set | Yes | |
| §63.2 | Definitions | Yes | Additional definitions are specified in §63.5779. |
| §63.3 | Units and Abbreviations | Yes | |
| §63.4(a) | Prohibited Activities | Yes | |
| §63.4(b)-(c) | Circumvention/Severability | Yes | |
| §63.5(a) | Construction/Reconstruction | Yes | |
| §63.5(b) | Requirements for Existing, Newly Constructed, and Reconstructed Sources | Yes | |
| §63.5(d) | Application for Approval of Construction/Reconstruction | Yes | |
| §63.5(e) | Approval of Construction/Reconstruction | Yes | |
| §63.5(f) | Approval of Construction/Reconstruction Based on Prior State Review | Yes | |
| §63.6(a) | Compliance With Standards and Maintenance Requirements – Applicability | Yes | |
| §63.6(b) | Compliance Dates for New and Reconstructed Sources | Yes | § 63.5695 specifies the compliance dates, including the compliance date for new area sources that became major sources after the effective date of the rule. |
| §63.6(c) | Compliance Dates for Existing Sources | Yes | § 63. 5695 specifies the compliance dates. |
| §63.6(e)(1)-(2) | Operation and Maintenance | No | Operating requirements for open molding operations with add-on controls are specified in § 63. 5725 |
| §63.6(e)(3) | Startup, Shutdown, and Malfunction Plan | Yes | Only sources using an add-on controls must complete startup, shutdown, and malfunction plans. |
| §63.6(f) | Compliance with Nonopacity standards. | Yes | |
| §63.6(g) | Use of an Alternative Standard | Yes | Subpart VVVV does not specify opacity or visible emission standards.. |
| §63.6(h) | Compliance With Opacity/Visible Emission Standards | No | |

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| §63.6(i) | Extension of Compliance with emission standards. | Yes | |
| §63.6(j) | Exemption from Compliance with Exemption standards. | Yes | |
| §63.7(a)(1) | Performance Test Requirements | Yes | Applies to all effected sources. Additional requirements for performance testing are specified in §§63.3964, 63.3965, and 63.3966. |
| §63.7(a)(2) | Performance Test Requirements – Dates | NO | § 63. 5716 specifies test dates. |
| §63.7(a)(3) | Performance testing at other times. | Yes | |
| §63.7(b)-(h) | Other Performance testing requirements. | Yes | Applies only to performance tests for capture system and add-on control device efficiency at sources using these to comply with the standard. |
| §63.8(a)(1)-(2) | Monitoring Requirements – Applicability | Yes | All of §63.8 applies only to source with add-on controls. Additional monitoring requirements for sources with add-on controls are found in § 63. 5725. |
| §63.8(a)(4) | | No | Subpart VVVV does not refer directly or indirectly to § 63. 11. |
| §63.8(b)(1) | Conduct of Monitoring | Yes | |
| §63.8(b)(2)-(3) | Multiple Effluent and Multiple Continuous Monitoring Systems (CMS). | Yes | Applies to sources that use a CMS on the control device stack. |
| §63.8(c)(1)-(4) | Continuous Monitoring Systems Operation and Maintenance (CMS) | Yes | |
| §63.8(c)(5) | Continuous Opacity Monitoring Systems (COMS). | No | Subpart VVVV does not have opacity or visible emission standards. |
| §63.8(c)(6)-(8) | Continuous Monitoring Systems Calibration Check and Out-of-Control Periods. | Yes | . |
| §63.8(d) | Quality Control Program. | Yes | |
| §63.8(e) | CMS Performance Evaluation | Yes | |
| §63.8(f)(1)-(5) | Use of an Alternative Monitoring Method | Yes | |
| §63.8(f)(6) | Alternative to Relative Accuracy Testing | Yes | Applies only to sources that use continuous emission monitoring systems (CEMS). |
| §63.8(g) | Data Reduction | Yes | |
| §63.9(a) | Notification Requirements-Applicability | Yes | |
| §63.9(b) | Request for Compliance Extension | Yes | |
| §63.9(c) | Notification of Visible Emissions/Opacity Test | No | |
| §63.9(d) | Notification that a New Source is Subject to Special Compliance Requirements. | No | |
| §63.9(e) | Notification of Performance Test. | Yes | Applies only to sources with add-on controls. |
| §63.9(f) | Notification of Visible Emissions Opacity Test. | Yes | Subpart VVVV does not have opacity or visible emission standards. |
| §63.9(g)(1) | Additional CMS Notification-Date of CMS performance Evaluation. | Yes | Applies only to sources with add-on controls |
| §63.9(g)(2) | Use of COMS Data | No | Subpart VVVV does not require the use of COMS. |
| §63.9(g)(3) | Alternative to Relative Accuracy Testing | Yes | Applies only to sources with CEMS. |

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| §63.9(h) | Notification of Compliance Status. | Yes | |
| §63.9(i) | Adjustment of Deadlines. | Yes | |
| §63.10(a) | Recordkeeping/Reporting – Applicability | Yes | |
| §63.10(b)(1) | General Recordkeeping Requirements | Yes | §§63.5767 and 63.5770 specify additional record keeping requirements. |
| §63.10(b)(2)(i)-(xi) | Recordkeeping Relevant to Startup, Shutdown, and Malfunction Periods and CMS | Yes | Applies only to sources with add-on controls. |
| §63.10(b)(2)(xii)-(xiv) | General Recordkeeping Requirements | Yes | |
| §63.10(b)(3) | Recordkeeping Requirements for Applicability Determinations. | Yes | §§63.5686 specifies applicability determinations for non-major sources. |
| §63.10(c) | Additional Recordkeeping for Source with CMS. | Yes | Applies only to sources with add-on controls. |
| §63.10(d)(1) | General Reporting Requirements | Yes | §63.5764 specifies additional requirements. |
| §63.10(d)(2) | Performance Test Results | Yes | §63.5764 specifies additional requirements for reporting performance test results. |
| §63.10(d)(3) | Opacity or Visible Emissions Observations | No | Subpart VVVV does not require opacity or visible emissions standards. |
| §63.10(d)(4) | Progress Reports for Source with Compliance Extensions | Yes | |
| §63.10(d)(5) | Startup, Shutdown, and Malfunction Reports | Yes | Applies only to sources with add-on controls. |
| §63.10(e)(1) | Additional CMS Reports-General | No | Applies only to sources with add-on controls. |
| §63.10(e)(2) | Reporting Results of CMS performance Evaluations. | Yes | Applies only to sources with add-on controls. |
| §63.10(e)(3) | Excess Emissions/CMS Performance Reports. | Yes | Applies only to sources with add-on controls. |
| §63.10(e)(4) | COMS Data Reports | No | Subpart VVVV does not require opacity or visible emissions standards. |
| §63.10(f) | Recordkeeping/Reporting Waiver | Yes | |
| §63.11 | Control Device Requirements/Flares | No | Facilities subject to Subpart VVVV do not use of flares as a control devices. |
| §63.12 | State Authority and Delegations | Yes | §63.5776 lists those sections of subpart A that are not delegated |
| §63.13 | Addresses | Yes | |
| §63.14 | Incorporation by Reference | Yes | |
| §63.15 | Availability of Information/Confidentiality | Yes | |